

FORM PTO-1449  
(REV 7-80)U.S. DEPARTMENT OF COMMERCE  
PATENT AND TRADEMARK OFFICE

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**U.S. PATENT DOCUMENTS**

*Examiner Initial		Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate
<i>DM</i>	AB	4,555,960	12/03/85	King			
	AC	4,628,765	12/16/86	Dien et al.			
	AD	4,638,798	01/27/87	Shelden et al.			
	AE	4,686,866	08/18/87	Rosheim			
	AF	4,723,460	02/09/88	Rosheim			
	AG	5,305,653	04/26/94	Ohtani et al.			
	AH	5,397,323	03/14/95	Taylor et al.			
	AI	5,721,566	02/24/98	Rosenberg et al.			
	AJ	5,805,140	09/08/98	Rosenberg et al.			
<i>DM</i>	AK	5,816,105	10/06/98	Adelstein			

**FOREIGN PATENT DOCUMENTS**

		Document Number	Date	Country	Class	Subclass	Translation Yes No
	AL						
	AM						
	AN						
	AO						
	AP						

**OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc)**

<i>DM</i>	AS	G.J. Hamlin, A.C. Sanderson, "A novel concentric multi-link spherical joint with parallel robotics applications", Proceedings IEEE International Conference on Robotics and Automation, pp. 1267-1272, 1994.			
<i>DM</i>	AT	V. Hayward, "Toward a seven axis haptic device", Proceedings IEEE International Conference on Intelligent Robots and Systems: Human Robot Interaction and Cooperative Robots, pp. 133-139, 1995.			

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<i>DMP</i>	AA2	5,824,007	10/20/98	Faraz et al.			
	AB2	5,855,583	01/05/99	Wang et al.			
	AC2	6,024,576	02/15/00	Bevirt et al.			
	AD2	6,026,703	02/22/00	Stanisic et al.			
	AE2	6,088,020	07/11/00	Mor			
	AF2	6,104,382	08/15/00	Martin et al.			
	AH2	6,154,198	11/28/00	Rosenberg			
	AI2	6,192,143	02/20/01	Souluer			
	AJ2	6,201,984	03/13/01	Funda et al.			
<i>DMP</i>	AK2	6,244,809	06/12/01	Wang et al.			

**FOREIGN PATENT DOCUMENTS**

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	AM							
	AN							
	AO							
	AP							

**OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc)**

<i>DMP</i>	AR2	R. Baumann, W. Maeder, D. Glauser, R. Claval, "The PantoScope: a spherical remote-center-of-motion parallel manipulator for force reflection", Proceedings IEEE International Conference on Robotics and Automation, pp. 718-723, 1997.			
<i>DMP</i>	AS2	A. Faraz, Sh. Payendeh, "A robotic case study: optimal design for laparoscopic positioning stands", International Journal of Robotics Research, Vol. 17, No. 9, pp. 986-995, 1998.			
<i>DMP</i>	AT2	E. Degoulange, L. Urbain, P. Caron, S. Boudet, J.L. Megnien, F. Pierrot, E. Dombre., "HIPROCRATE: an intrinsically safe robot for medical applications", Proceedings IEEE/RSJ International Conference on Intelligent Robots and Systems, pp. 959-964, 1998.			

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*Examiner Initial		Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate
<i>JMF</i>	AA3	6,271,833	08/07/01	Rosenberg et al.			
	AB3	6,339,969	01/22/02	Salcudean et al.			
	AC3	6,351,549	02/26/02	Souluer			
	AD3	6,368,332	04/09/02	Salcudean et al.			
	AE3	6,400,837	06/04/02	Souluer			
	AF3	6,418,811	07/16/02	Rosheim			
	AG3	6,429,849	08/06/02	An et al.			
<i>JMF</i>	AH3	6,425,865	07/30/02	Salcudean et al.			
	AI3						
	AJ3						
	AK3						

## FOREIGN PATENT DOCUMENTS

		Document Number	Date	Country	Class	Subclass	Translation	
							Yes	No
	AL							
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	AN							

## OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc)

<i>JMF</i>	AR3		A. Gourdon, Ph. Poignet, G. Poisson, P. Vieyres, P. Marche, "A new robotic mechanism for medical application", Proceedings IEEE/ASME International Conference on Advanced Intelligent Mechatronics, pp. 33-38, 1999.			
	AS3		A.J. Madhani, G. Niemeyer, K. Salisbury, "The Black Falcon: a teleoperated surgical instrument for minimally invasive surgery", Proceedings IEEE/RSJ International Conference on Intelligent Robots and Systems, pp. 936-944, 1998.			
<i>JMF</i>	AT3		M.C. Cavusoglu, M.C. Tendick, S.Sh. Sastry, "A laparoscopic telesurgical workstation", IEEE Transactions on Robotics and Automation, Vol. 15, No. 4, pp. 728-739, 1999.			

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AR4	P. Vischer, R. Clavel, "Argos: A novel 3-DoF parallel wrist mechanism", International Journal of Robotics Research, Vol. 19, No. 1, pp. 5-11, 2000.			
AS4	W.H. Zhu, S.E. Salcudean, S. Bachmann, P. Abolmaesumi, "Motion /force/image control of a diagnostic ultrasound robot", Proceedings IEEE International Conference on Robotics and Automation, pp. 1580-1585, 2000.			
AT4	J.M. Wiitala, M.M. Stanisic, "Design of an overconstrained and dexterous spherical wrist", ASME Journal of Mechanical Design, Vol. 122, pp. 347-353, 2000.			
AR5	S.E. Salcudean, W.H. Zhu, P. Abolmaesumi, S. Bachmann, P.D. Lawrence, "A robot system for medical ultrasound", Proceedings 9 <sup>th</sup> International Symposium of Robotics Research (ISRR'99), pp. 195-202, 2000.			
AS5	J.H. Lee, K.S. Eom, B.J. Yi, I.H. Suh, "Design of a new 6 DOF parallel haptic device", Proceedings IEEE International Conference on Robotics and Automation, pp. 886-891, 2001.			
AT5	M. Mitsubishi, Sh. Warisawa, T. Tsuda, T. Higuchi, N. Koizumi, H. Hashizume, K. Fujiwara, "Remote ultrasound diagnostic system", Proceedings IEEE International Conference on Robotics and Automation, pp. 1567-1574, 2001			
AR6	J. Yoon, J. Ryu, " Design, fabrication, and evaluation of a new haptic device using a parallel mechanism", IEEE/ASME Transactions on Mechatronics, Vol. 6, No. 3, pp. 221-230, 2001.			
AS6	K. Masuda, E. Kimura, N. Tateishi, K. Ishihara, "Three dimensional motion mechanism of ultrasound probe and its application for tele-echography system", Proceedings IEEE/RSJ International Conference on Intelligent Robots and Systems, pp. 1112-1116, 2001.			
AT6	Ch. Duriez, D. Lamy, Ch. Chaillou, "A parallel manipulator as a haptic interface solution for amniocentesis simulation", Proceedings IEEE International Workshop on Robot and Human Interactive Communication, pp. 176-181, 2001.			
AR7	C. Delgorge et al., "OTELLO project: Mobile Tele-Echography using an ultra-light robot", Telemed'02, 2002, London, UK.			
AS7	L. Birglen, C. Gosselin, N. Pouliot, A new three DoF haptic device", IEEE Transactions on Robotics and Automation, Vol. 18, No. 2, pp. 166-175, 2002.			
AT7	N.S. Guerin, L. Bassit, G. Poisson, C. Delgorge, Ph. Arbeille, P. Vieyres, "Clinical validation of a mobile patient-expert tele-echography system using ISDN lines", Proceedings IEEE-EMBS Information Technology Applications in Biomedicine, pp. 24 -26, 2003.			
AS8	A.V. Gonzales, et al., " TER: A system for robotic tele-echography", Proceedings International Conference of Medical Image Computing and Computer-Assisted Intervention, pp. 326-334, 2001.			

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